

CLAIMS

1. A surgical method for bone surgery, characterized in that it provides a surgical treatment on bone tissue by means of a tip set in vibration at a frequency in the ultrasound range.
2. A surgical method according to claim 1, characterized in that it is used in orthopedic and neurological surgery.
3. A surgical method according to claim 1, characterized in that it is used in osteotomy treatments.
4. A surgical method according to claim 3, characterized in that said osteotomy treatment provides bone restriction, breaking the continuity of the skeletal segment, by means of a osteotome tip set in vibration at a frequency in the ultrasound range.
5. A surgical method according to claim 1, characterized in that it is used in osteoplasty treatments.
6. A surgical method according to claim 1, characterized in that it is used in ostectomy treatments.
7. A surgical method according to claim 1, characterized in that it is used in oral, maxillo-facial and otorhino-laryngol surgical procedures.
8. A surgical method according to claim 7, characterized in that it is used in surgical procedures for implantation on an edentulous ridge.
9. A surgical method according to claim 8, characterized in that it comprises the following steps:
 - horizontal crestal incision on edentulous ridge, by a chisel tip operated by ultrasound, so that it performs an extremely precise and fine incision,

- widening of said incision, by means of a chisel tip, with widened point, operated by ultrasound, to separate the vestibular cortical bone wall from the palatal one,
 - creation of at last one implant site on the bottom of the widened horizontal crestal incision, by means of an osteotome tip operated by ultrasound,
 - positioning of implants in the implant sites respectively.
10. A surgical method according to claim 7, characterized in that it is used for bone tissue incisions for bone sampling in hardly accessible anatomical areas.
11. A surgical method according to claim 7, characterized in that it is used for excision of at least one of cysts, inflammatory tissue or phlogistic tissue.
12. A surgical method according to claim 7, characterized in that it is used for extraction of impacted third molars in the vicinity of the dental alveolus.
13. A surgical method according to claim 7, characterized in that it is used for creation of a bone opening into the maxillary sinus (Caldwell-Luc) without damaging the sinusal membrane, and elevation thereof.
14. A surgical method according to claim 7, characterized in that it is used for elevation of the maxillary sinus by the ethmoidal crest route.
15. A surgical method according to claim 1, characterized in that it is used for vertebral laminectomy treatments.
16. A surgical method according to claim 7, characterized in that it is used for hand and foot bone surgery.